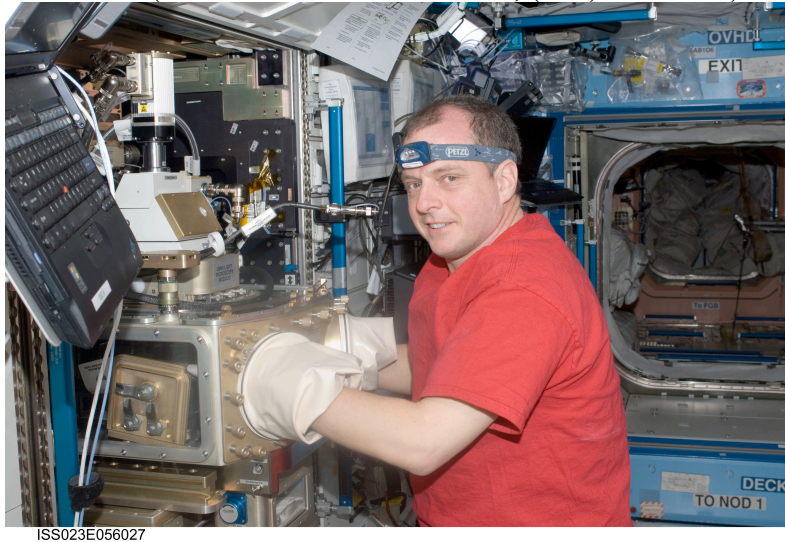


## **ISS and Human Research Project Office Highlights June 18, 2010**

### **ISS Research Program**

#### **Operations with LMM to resume on ISS.**

Operations will continue with LMM starting June 18, 2010 for five 24-hour shifts. This is the third (20-mm Pentane) Contained Vapor Bubble (CVB) module. The picture below is T. J. Creamer installing the 20 mm CVB Module. On June 11, 2010 the Pre-Advanced Colloids Experiment held a successful Systems Acceptance Review -1 (SAR-1). It is scheduled to ship to Kennedy Space Center (KSC) on June 21, 2010, for launch in the Multi-Purpose Logistics Module (MPLM) on ULF-5. (POC: MAH/Ronald Sicker, (216) 433-6498)



#### **CSLM-2R hardware is installed in MSG on ISS.**

The Flight Engineer Tracy Caldwell installed the Coarsening in Solid-Liquid Mixtures-2 Re-flight (CSLM-2R) hardware in the Microgravity Science Glovebox (MSG) facility on board the International Space Station. The first of the Sample Processing Units vacuum vent cycles started June 16, 2010. The first SPU is scheduled to begin processing the samples on June 19, 2010, and has a heat soak time of 48 hours. After 48 hours at 185 degrees Celsius the samples are quenched with water. This preserves the sample microstructure. The Space Acceleration Measurement System (SAMS) unit was activated to measure the microgravity environment within the MSG facility during the CSLM-2R operations. The CSLM-2R is a Microgravity Science Glovebox (MSG) materials science experiment. One Electronic Control Unit (ECU) and six CSLM-2R Sample Processing Units (SPUs) were launched on board Shuttle STS-131/Flight 19A on April 5, 2010.

The first of six CSLM-2R Sample Processing Units (SPUs) started its vacuum vent cycles, and the CSLM-2R team is on console at the Telescience Support Center working with the Microgravity Science Glovebox team to complete the operations for the remaining SPU's. The science data is contained in the samples, and samples will be returned to earth, and analyzed by Peter Voorhees the Principal Investigator. (POC: MAH/Robert Hawersaat, (216) 433-8157)